

## INTERNATIONAL SEARCH REPORT

Rec'd PCT/PTO 09 MAR 2005

Internat Application No  
PCT/03/00362A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 B63B21/04 B66D1/50

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B63B B66D B65H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 846 090 A (PALMQUIST TERRENCE L) 11 July 1989 (1989-07-11) cited in the application the whole document	1,3,5
Y	US 5 819 679 A (BONATE DOUGLAS J ET AL) 13 October 1998 (1998-10-13) column 3, line 41 -column 4, line 51; figures	1-6, 11-16
Y	FR 2 659 623 A (CHAVATTE HERVE) 20 September 1991 (1991-09-20) the whole document	1,3, 13-15
Y	US 3 261 591 A (CAMPBELL GEORGE T R ET AL) 19 July 1966 (1966-07-19) column 5, line 29 - line 37 column 9, line 40 - line 46; figures 1,6	1,3, 13-15
	-/-	

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

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Date of the actual completion of the International search

24 June 2003

Date of mailing of the international search report

30/06/2003

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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Y	US 6 139 234 A (HUANG CHING SHUI) 31 October 2000 (2000-10-31) abstract; figures 5,6 ----	4-6
Y	US 5 577 843 A (LEININGER MARY M ET AL) 26 November 1996 (1996-11-26) abstract; figures 4-6 ----	11,12
Y	GB 2 368 056 A (MILLER GRAHAM) 24 April 2002 (2002-04-24) abstract; figure 1 ----	11,12
A	DE 23 28 449 A (WAHLEFELD GEB) 2 January 1975 (1975-01-02) claims; figures ----	1-19
A	FR 2 294 977 A (FORASOL SA) 16 July 1976 (1976-07-16) page 3, line 13 - line 21; figures ----	1-19
Y	US 5 053 586 A (HANSSON GUNNAR C) 1 October 1991 (1991-10-01) abstract; figure 2 -----	4

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/JP 03/00362

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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